

Telegram 1.27

July 1 - Aug. 13,
1953

Parking 1.15
Lunch 1.94
Proctor 1.99
Phone Call 3.25

WC see p 469

452 College

and valleys, as well as that are far apart on that are close together run together indicate a express altitude, form,



scale of $\frac{1}{31,680}$ (1 inch = one-half mile) with a contour interval of 1 to 100 of the particular area mapped.

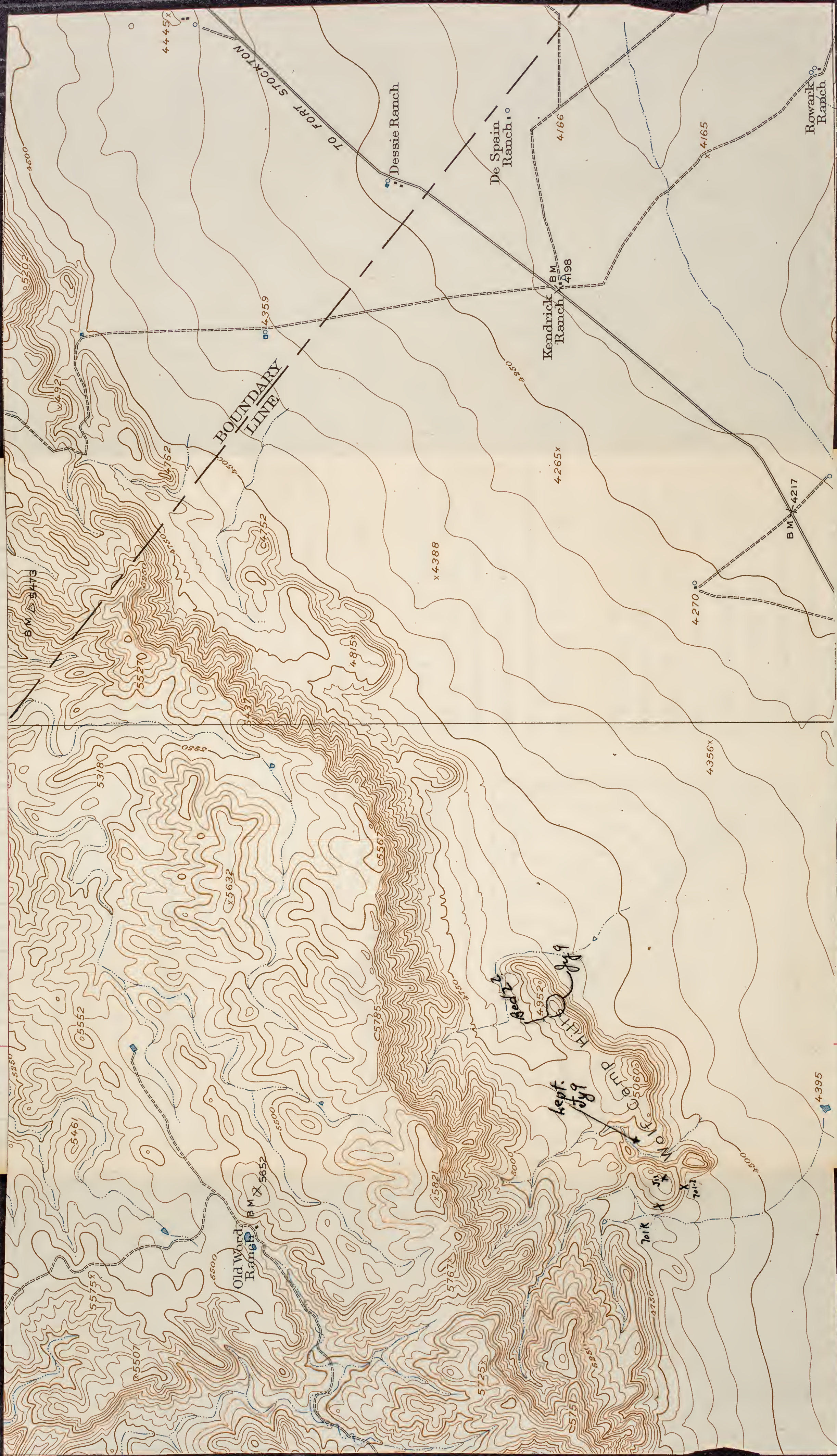
2. Surveys of areas in which the public importance, such as most of and its tributaries, are made with the publication of maps on a scale (mile), with a contour interval of 10

3. Surveys of areas in which public importance, such as much region of Arizona or New Mexico, of the northwest, are made with the publication of maps on a scale (miles) or $\frac{1}{250,000}$ (1 inch = nearly 4 miles) of 20 to 250 feet.

The aerial camera is now being used to record information on the photographs which show only drainage and culture areas in the United States. By this apparatus, aerial photographs are used in the regular topographic maps, with drainage and culture.

A topographic survey of Alaska in 1898, and nearly 44 percent of its area. About 15 percent of the Territory was surveyed on a scale of $\frac{1}{500,000}$ (1 inch = nearly 4 miles). The remainder of the area surveyed the scale of $\frac{1}{250,000}$ (1 inch = nearly 4 miles). Particular economic importance, covering the maps published are on a scale of

0415



0416



valley that lies between two
sea, with a bay that is partly

On each side of the valley is
ams have cut narrow gullies.
nded summit and gently slop-

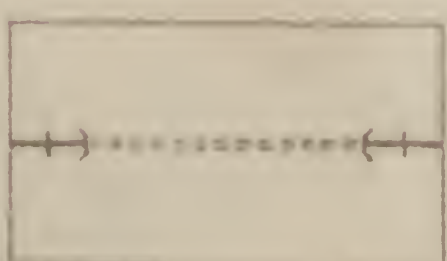
SYMBOLS

NOTE:—Effective
quadrang
amountin

URE
(in black)



Electric
road



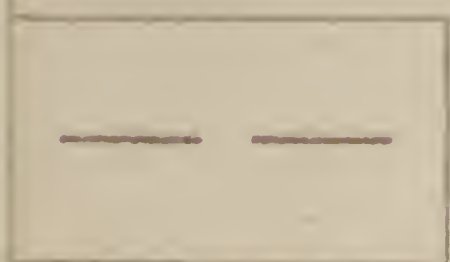
Tunnel



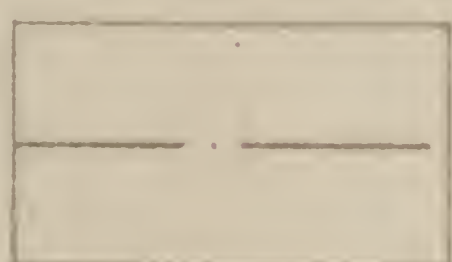
Power-
transmission
line



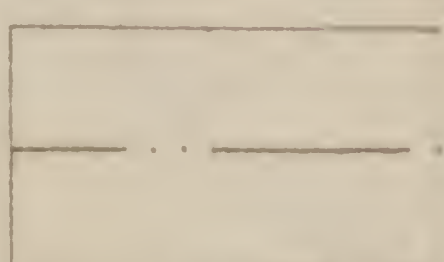
Wharf



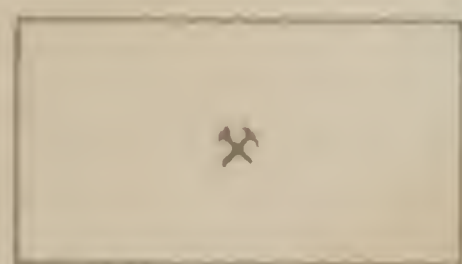
Civil Township
or district line



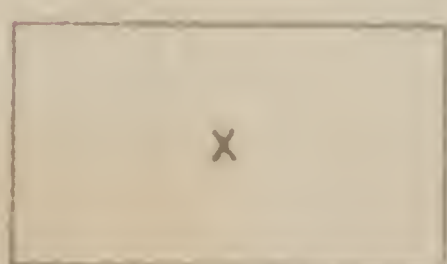
Reservation
line



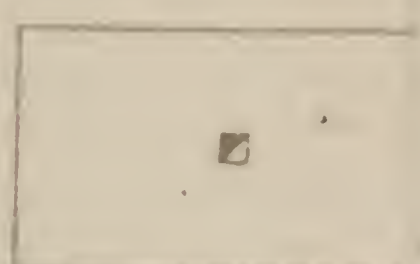
Land grant
line



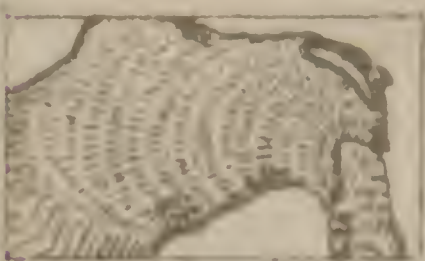
Mine or
quarry



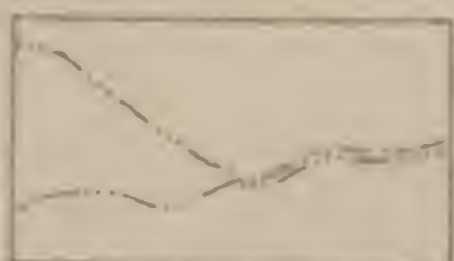
Prospect



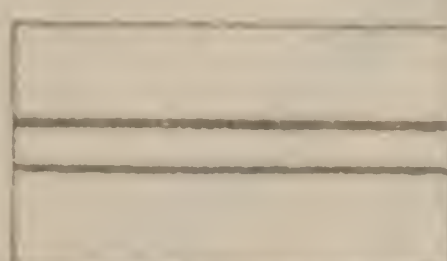
Shaft



Falls and
rapids



Intermittent
streams and
ditches



Canals or
ditches

or larger. In addition to the
about 11,300 square miles
covered by planimetric maps.

The Hawaiian Islands have
maps are published on a scale



City or
village



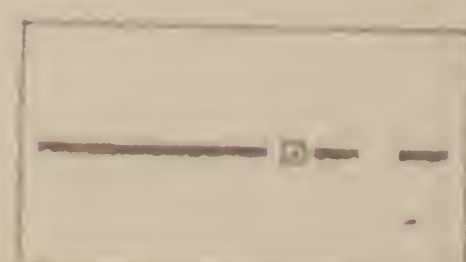
Roads and
building



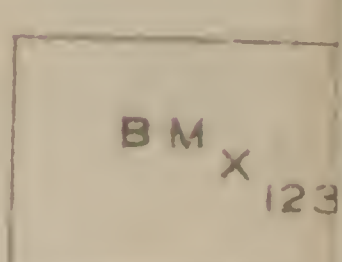
Ford



Dam

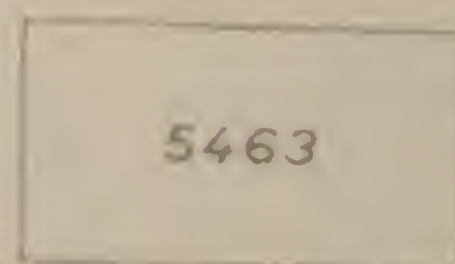


Boundary
monument



Bench mark

(supplementary
mark shown by
black figures and
lettering)



5463

Elevation above
mean sea level
(in black on recent maps)

0417



July 1 - Aug. 12, 1953.

July 1-3 Washington to Sulphur Springs, Texas

July 4 - Sulphur Spgs. Texas to Coleman, Texas. Visited Moore loc. 9800, 3 miles east of Coleman. Only abundant fossil is *Prod. wolfeampensis*. Poorly preserved occurred in a hard bed about one foot thick. Coleman Junction ls.

July 5 - Morning at Moore loc. 9800 9 mi. SW of Rockwood. About 25' above a one foot limestone forming edge of creek channels occurs ls and nodular ls above and below, in all possibly 5' thick with numerous fossils. Followed bed for about one mile along hillside. Saddle Creek ls & Camp Creek shale.

Moore loc. 9805 - Watts Creek shale member of Moran fm. - Cut on US 67, 2 miles east of Santa Anna. Very fossiliferous contained *Clethyrodina* and very like Moran, 5 mi. NW of Moran.

July 6 - Travelled to Marathon, arrived about 3:30 P.M.

July 7 - Went to Wolfcamp Hills. Collected J 1150 & 701h. Now collected out. Afternoon collected HR north of Hess Ranch.

Register of blocks 1953

701h	— — — — —	6
HR	— — — — —	6
701K	— — — — —	7
706b	— — — — —	1
706C	— — — — —	6
707e	— — — — —	6
SP	— — — — —	1

Jy 1552 = Newell 512 — 10

Jy 1953	—	2
Newell 52	—	6
		<hr/> 51

Picture 1 - WC 4 and WC 2 in small
canyon from west.

Picture 2 - Bioherms in saddle WC hills

July 9 - At mouth of 1st small canyon east
of canyon of King's section occurs patch
of *Leptodus* bound together with algae.

July 8 - Wolfcamp hills to collect
701K. Found 2 patches only
to collect. Collected goniatites for
several hours. Left for town about
3 P.M. Bed with crack but goniatites
is about 20 feet below top of
Uddenites zone

706p
8
701a
July 9 - Went to Wolfcamp hills to see
section. Went over bed two to
canyon mouth, up over *Uddenites*
saddle. Collected 2 fusuline
samples, one in lower part of bed
2 and one at the top of the
Uddenites knob. Went up canyon
and saw *Leptodus* at top of bed 2.
Collected from Bed 12 which has
goniatites. Afternoon went to
saddle to see bioherms. Walked
up limestone of *Uddenites* bed to
end of hills. The knob called
4952 is definitely Bed 2 but is
completely dolomitized. The knob
just to the SW is on the *Uddenites*
to and I took a *Spiriferella* from
the center of this knob. Also took
fusulines at same place that are small
like those at the base of this bed.
On this part of the hill there

seems to be no bed 2 at the top of the hill. What appears to be bed 2 and with a thin shale under it occurs about 100' in elevation below the ledge or about 0.1 mile. The crest of the hills from the saddle to the knob just SW of hill 4952 is the Uddenites bed and not bed 2. On the knob just east of the main saddle Bed 2 appears above about 20' of shale just below the crest of the hill.

July 10. Collected 706b, 706c, 706e. Later in afternoon collected 702c.

Pictures 3 & 4 Hess Ranch Horst 4 is east side Horst, 5 west side with unconformity.

July 11 - South of WC locality with *Orthis* near middle of Decie Hills went over thick sandy cgl. On steep facing flat about 50-75' above flat is contact of cgl. with With Gaptank? The latter contains brown algal reef and patch of chert possibly remnant of Klippe. About 25' above contact some massive gray beds in cgl. from which I took two goniatites. The lower 40-50' of cgl. have many ls pebbles but above that to the shale ls. pebbles are few and the beds have much chert breccia scattered in them.

Picture 5+6 - Decie Ranch view of hill with shale below Hess (5), continuous with it to show ridges (6).

July 11 in morning collected from Artinskian bed 30' above base of Wolfcamp cgl. Then went up to collect shale between WC cgl and Hess. This shale is quite bluish and fairly hard in places but weathers to a dull gray. The snails occur in the lower part of cgl. Beds of ls and cgl occur throughout the shale.

The Hess on the shale is very strongly conglomeratic. It also contains thick bedded blocky ls. with brown chert on upper surface. This contains small reticulate productid with raised muscle platforms. Beds of yellow platy shale also appear between the heavy conglomerate beds suggesting passage to west into the yellow platy shale.

Afternoon went over about 220 yds west along front to Artinskian bed (2) climbed south (perpendicular) to strike over the Wolfcamp cgl. on front found 2 goniatites 20-25' above base. Over near where cars are parked the base of the Wolfcamp is heavy bedded cgl. ls. with fossils, but I was unable to locate goniatites.

-712P

July 12. Examined knob on east end of Windmill Hill section. Knob is in lower Wolfcamp, not Hess and is exaggerated by the topography because the Permian cgl covers nearly all the NE side of knob. It is thus the normal Hess cgl. covering the back slopes.

Picture 7 - Sullivan peak from entrance to Canyon Decie Hills

Picture 8 - Knob on east end of Windmill Hill from west.

Afternoon went along base of spur on west side Sullivan Ranch road to Arroyo down which fault goes. Heavy ledges with Leachmiller can be traced across the front near the base of the hill to the arroyo with the fault. Here the ledges end abruptly on the east edge of the arroyo. South down the gully about 0.1 mile Devonian chert appears. On the south side of the big mass of rock, on the slope opposite the rocks (south) Pennsylvanian type rocks appear. Under the big mass are yellow shales and thin yellow limestone. Took sample with fusulines. Real Wolfcamp fusulines

706V

July 13 - Went to Leonard Mtn. to examine knot. Seen from east dips are not in accord with regional structure and in places are high 30° - 40° . Noted some dolomite calcarenite on west side of block. About half way down from top of knot on west side is a shelf and on this I saw *Leacchidella*, large *Murchella* and *Fusulina*. Sample taken.

Picture 9 - Looking up arroyo on east side of knot. Large tree near top marks top of Uddenites shale.

Picture 10 - Profile S end Leonard Mtn from SW.

July 14 - Collected at Sullivan Peak all day

July 15 - Collected at 702 d & e.

July 16 - Brooks Ranch - Saw *Palaeoterebra* in massive limestone at base of section.

Collected Wolfcamp at Gaptank. The thick ls under the Wolfcamp are mostly massive and dolomitized.

Replace @ Big block

July 17.

Blocks to Chicago

260

Carpenter blocks

22, 24	==	245
2, 12	==	395
17, 20, 19	==	325
6	==	370
33	==	310
14	==	180
25	==	368
10, 3, 8	==	380
28, 21, 27, 15	==	365
13, 11, 7	==	378
18, 16	==	375
4	==	135
31, 29	==	305
9, 5	==	450
32	==	383
30, 26	==	315
23, 1,	==	360
2 boxes	==	355

 5994

3

5994

731

July 19 '53 Pinery from top of hill
5130, $\frac{1}{2}$ mile SSW of Pinyon Fork,
South of Getaway Gap, Guadalupe
Peak \square , Texas

July 20 - Spent at Carlsbad in effort
to get on Fig. 2 Ranch.

July 21 - west side road in ditch,
ca $\frac{1}{2}$ mile N of gate at Hueco chm.

July 21' - S side saddle of hill
opposite BM 5318, $1\frac{1}{2}$ miles N
of Hueco chm, Hueco Mtns \square ,
Texas.

Collected in Powerhouse Canyon from
2 knobs, elevation 3000', one mile
NNE of elevation on U.S. 62 of
4536 at a road intersection just
east of entrance to Powerhouse
Canyon, Helms West Well \square , 124000, Texas.

July 23 -

Pack 2 - pictures 1 & 2 Crows Canyon
contorted Bone Spring.

3 & 4 Guadalupe Peak from intersection
US 180-62 & Texas 54!

5 & 6. — lost.

R. Taylor Hoskins Super.

T. Homer Black Park Nat.

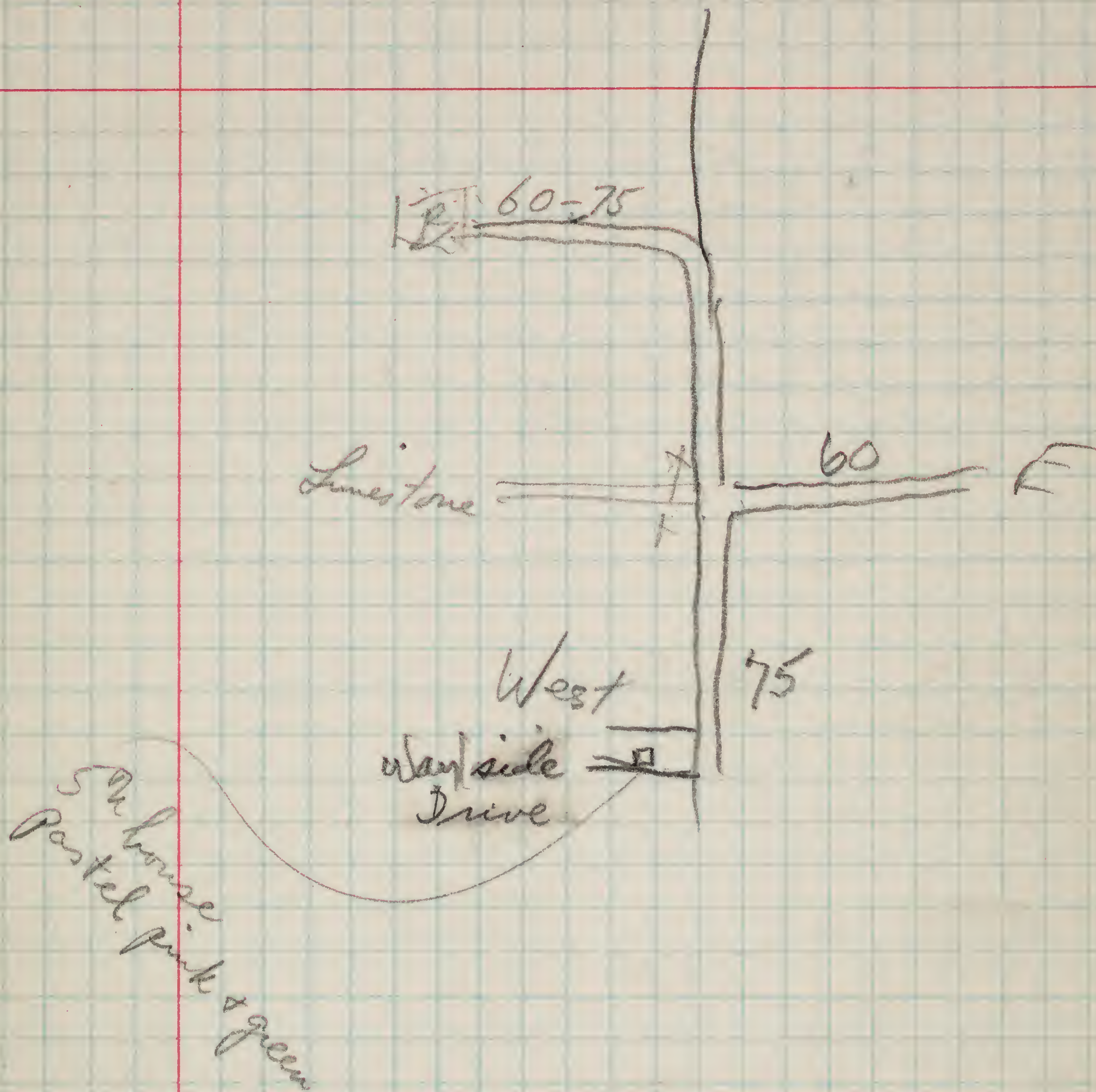
July 24 - Entered caverns 8:AM, Left
5 PM.

Camp Colorado = 61

62 small Derbyia from Permian
Probably = Haysville Hordes Creek
ca 8 miles ENE of Colman.

Renfro want piece of Mexican
fusuline and other large fusulines.
Send Mrs. R. Franks.

Riverside Drive to Belknap Street
turn west (left) proceed 6 blocks
to River bridge, turn right before
bridge. Along Oakhurst Drive
about a mile from bridge.
East on Wabasha road by cemetery
left on Sylvania, right on Texas 28
Street,



Brownville on RR E of Strohman
3-7 miles east = NE.

Bill Ham

933 South Flood.

West on Main to first traffic light
about 5 blocks past hotel, left,
1 1/2 blocks past vand Schoolhouse,

Loc 1

5 of Chontean

2

h h

u

3

h h

q

4

h h

u

5

5 of Muskogee

6

Main Street Ardmore to State 77, to Lake Murray, Tucker Quarry or go in from Ouf'brook 3 1/2 miles E of U.S. 77,

Isogramma road cut west of crossing with Okla 33.

Hindsville = Grand River

good section Loc #1 Bert Nelson Farm, ^{center} E 1/2 Sec 16-19N-19E, Mayes County also Fayetteville in NW cor 16. on new road

Loc #2 1/2 mi E of Murphy,

Sec 1-19N-19E on Hastings Farm.

Roadcut near mail-boy.

good section Hindsville - Fayetteville - Hale
Down hill along south line of The section.

Loc. 3 Weaver Bros. Qy. NE 1/4 33-21N-19E. on road. Hindsville limestone 13'-15' near top.

Loc 4 Along rd SE cor sect. 13-22N-19E, for Fayetteville SE of Adair. East of Hawes.

Loc. 5 Cedar Creek Sec 36-13N-20E
 Moorefield & possibly Fayetteville
 South of Greleaf Lake $4\frac{1}{2}$ miles

Moorefield Stop 11 Guide book
 Center 10-13N-21E in old
 road cut S of new turn-
 around at edge Tenkiller Lake
 Also some Fayetteville, Quarry
 in Bloyd at road junction
 NW $\frac{1}{4}$ 10-13N-21E. Right at
 Qy for Moorefield Collecting.

Shaly Bloyd
 Probably good

Fennvale Guide Book Stop 5
 Cotton Road to Tahlequah, Military
 entrance go south $5\frac{1}{4}$ 35-14N-21E
 Road goes back NE into timber
 Fault on S side road Cotton
 Burgin, Tynes, upstream is a
 sheer bluff with Lte at base
 & W of Fennvale, to ledge
 silicified overlain by Sylvan & St. Clair

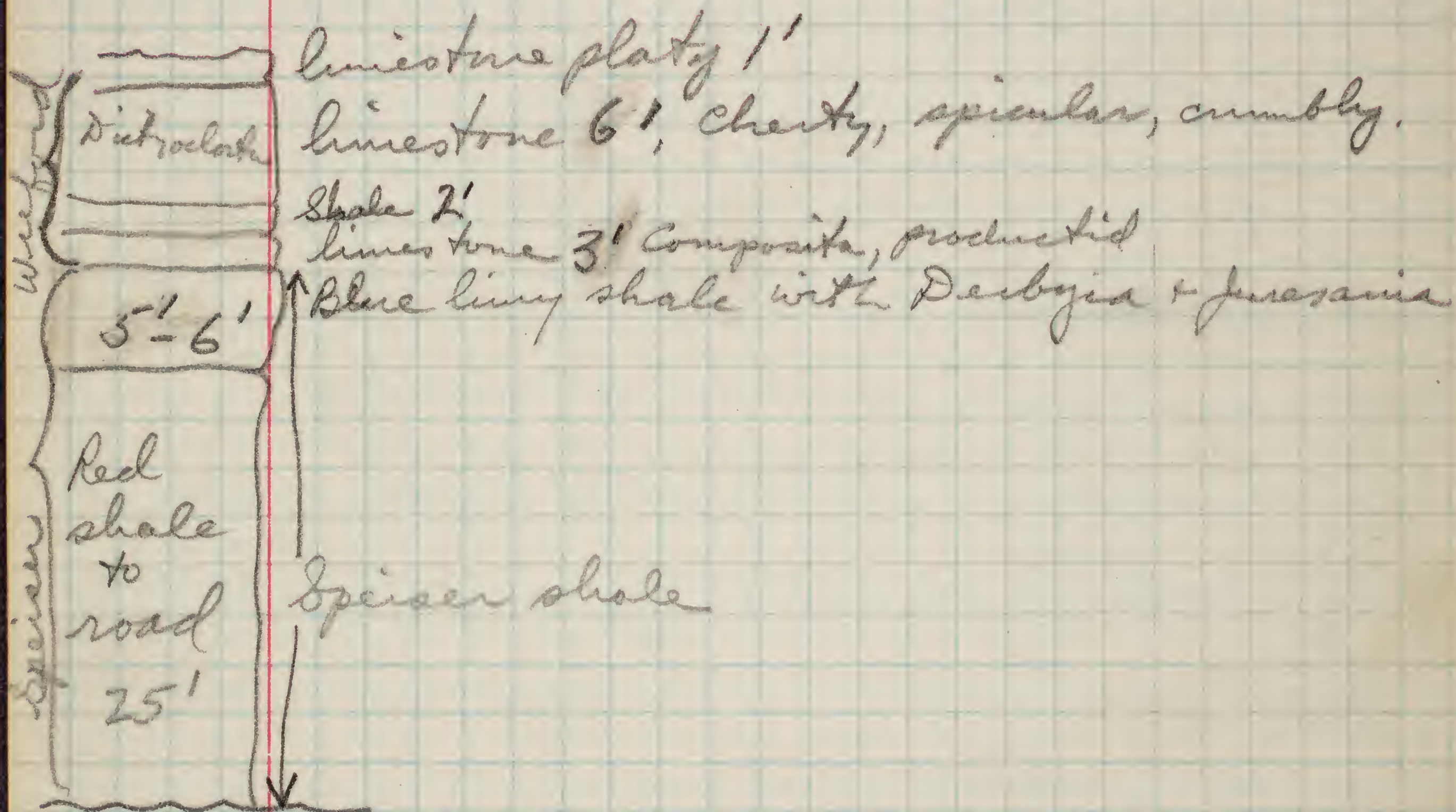
Kozacke Loc. 6 - SE of Pettit
Hindsville caps hill, west side
Creek SW 1/4 29 - 15N - 22E.

Go from stop 5 S + E to Qualls
Take left fork

To get to Qualls go out OKla 10-62^{U.S.}
See

Loc 7 - Bridge, east side
Chouteau Creek, N side of
old road, which is N of new
road. Fayetteville limestone
Bovoid productids. See step 4
in guide-book.

Kansas 15 - 3 miles S of Dexter
 Franks to Rouffos



Picture 7 Sh. channel about $1\frac{1}{4}$ miles west of Cloverdale intersection on Kansas 38.

Derbyia $1\frac{1}{4}$ mi. east of Burden on fl 5160 probably same as Derbyia bed at Dexter.

0432

Riverside Drive to Rosedale (2nd)
west on Rosedale to freeway
Signal with barricades = 81
Plymouth DA-8938

Locality for *Leucodan* for
Renfro.